



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyaranyapura.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
3	Coarse aggregate(20 mm down size)	Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
4	Fine aggregate	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
		Water Absorption	One Test		1	1
5	Block(400*150*200)	Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
6	Precast (100mm)	DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
		Core Compressive Strength	One Test		1	1
7	Precast (250mm)	Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
		Core Compressive Strength	One Test		1	1
8	PCC(M15)	Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
		Core Compressive Strength	One Test		1	1
9	Mortar Sand	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
		Compressive Strength(7days and 28days)	6 set /150-200 cum	198.24	12	12
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-04-29-33 Date: 14-01-22
Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyanarayapura.
Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.
Customer's Reference : BBMP/EE/BTP/WO/153/2022-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 11-01-22
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test : 12-01-22
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.14	—
2	Finess by Air permeablity method (m ² /kg,Min)	281.6	225m ² /kg, Min
3	Density (gm/cc)	3.14	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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R. Rudraprasad
R RUDRAPRASAD
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-04-29-33 Date: 09-02-22

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyananyapura.

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-01-22

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6

Date of test : 12-01-22

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.5N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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Certificate No.: TC-5548

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-04-29-33 Date: 14-01-22

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 11-01-22

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 11-01-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1223	1223	8.2	91.8	90-100
3	20 mm	5972	7195	48.0	52.0	30-70
4	10 mm	5575	12770	85.1	14.9	10-35
5	4.75 mm	1873	14643	97.6	2.4	0-5
6	Pan	357	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-04-29-33

Date: 14-01-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.62	—
4	Bulk Density(Loose) (Kg/l)	1.47	—
5	Bulk Density(Compacted) (Kg/l)	1.51	—
6	Water Absorption(%)	0.22	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-04-29-33 Date: 14-01-22
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyaranyapura.
Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.
Customer Reference : BBMP/EE/BTP/WO/153/2022-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 11-01-22
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 11-01-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2022-04-29-33

Date: 14-01-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.53	—
5	Bulk Density(Compacted) (Kg/l)	1.55	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-04-29-33 Date: 14-01-22

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyaranyapura.

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-01-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 11-01-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	31	31	3.1	96.9	90-100	90-100	90-100	95-100
3	2.36 mm	192	223	22.3	77.7	60-95	75-100	85-100	95-100
4	1.18 mm	152	375	37.5	62.5	30-70	55-90	75-100	90-100
5	600 micron	255	630	63.0	37.0	15-34	35-59	60-79	80-100
6	300 micron	186	816	81.6	18.4	5-20	8-30	12-40	15-50
7	150 micron	89	905	90.5	9.5	0-10	0-10	0-10	0-15
8	Pan	95	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-04-29-33

Date: 14-01-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.15	—
2	Specific Gravity	2.52	—
3	Material finer than 75 micron(%)	9.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2022-04-29-33 Date: 25-01-22

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyaranyapura.

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-01-22

Sample Type /Size : Precast Cover Slab 100mm Thick

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 21/01/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.02	100.51	1.863	4419	88.0	19.9	18.5	23.1
2	Cover Slab-2	75.01	100.50	1.849	4418	83.7	18.9	17.6	22.0
3	Cover Slab-3	75.02	100.49	1.872	4419	81.5	18.4	17.2	21.4

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-29-33 Date: 05/02/2022

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyanarayapura.

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-01-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5

Date of test : 05/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	29/01/2022	05/02/2022	151.65 X 150.30 X 149.51	22794	8.832	286.1	12.6	12.7
2	PCC	M15	29/01/2022	05/02/2022	149.30 X 151.65 X 149.43	22641	8.232	291.7	12.9	
3	PCC	M15	29/01/2022	05/02/2022	150.91 X 150.73 X 151.61	22747	8.842	287.4	12.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-29-33 Date: 26/02/2022

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyananyapura.

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-01-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	29/01/2022	26/02/2022	151.93 X 149.50 X 150.39	22714	8.652	404.0	17.8	17.5
2	PCC	M15	29/01/2022	26/02/2022	149.12 X 149.77 X 150.71	22334	8.838	391.5	17.5	
3	PCC	M15	29/01/2022	26/02/2022	149.34 X 151.96 X 149.97	22694	8.248	390.1	17.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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Technical Manager

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Certificate No.: TC-5548

Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2022-04-29-33 Date: 24-01-22

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyaranyapura.

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-01-22

Sample Type : Fine Aggregate, M.Sand for Mortar

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 21-01-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	22	22	2.2	97.8	90-100
3	1.18 mm	202	224	22.4	77.6	70-100
4	600 micron	198	422	42.2	57.8	40-100
5	300 micron	242	664	66.4	33.6	5-70
6	150 micron	235	899	89.9	10.1	0-15
7	Pan	101	1000	100.0	0.0	0

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Certificate No.: TC-5548

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID

:

CP-2022-04-29-33

Date: 24-01-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.98	—
2	Specific Gravity	2.53	—
3	Material finer than 75 micron(%)	11.1	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.94	—
5	Loose Bulk Density (Kg/litre)	1.78	—

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Technical Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2022-04-29-33 Date: 25-01-22
Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyanarayapura.
Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.
Customer's Reference : BBMP/EE/BTP/WO/153/2022-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-01-22
Sample Type/Size : Solid concrete blocks size (400X150X200)mm
Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test : 21-01-22

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	403	151	201	12231	22.164	1812.0	1867.3	Not less than 1800Kg/m ³
2	402	149	198	11860	21.375	1802.3		
3	398	151	199	11960	23.770	1987.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	24.25	23.46	3.25	3.71	Shall not be more than 10% by mass
2	23.95	22.97	4.10		
3	23.87	22.97	3.77		

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Lab ID : CP-2022-04-29-33

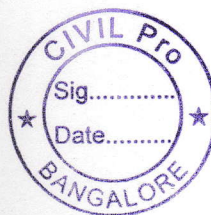
Date: 25-01-22

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	150	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	149	203	
3	402	151	203	
4	403	152	199	
5	400	149	201	
6	401	152	202	
7	399	149	199	
8	402	149	203	
9	402	151	201	
10	402	149	202	
11	401	151	199	
12	402	153	199	
13	402	153	202	
14	401	150	203	
15	401	150	202	
16	399	151	199	
17	401	151	203	
18	403	153	200	
19	401	152	202	
20	399	153	202	
Average of 20	401	151	201	

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Certificate No.: TC-5548

Lab ID : CP-2022-04-29-33

Date: 25-01-22

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	400	150	60119	252.8	4.2	4.2
2	401	149	59909	254.6	4.2	
3	402	151	60738	268.5	4.4	
4	403	152	61137	249.0	4.1	
5	400	149	59691	233.4	3.9	
6	401	152	60762	234.5	3.9	
7	399	149	59593	267.1	4.5	
8	402	149	60109	250.1	4.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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Technical Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2022-04-29-33 Date: 25-01-22

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyaranyapura.

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-01-22

Sample Type /Size : Precast Cover Slab 250mm Thick

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 21/01/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	150.03	250.51	3.899	17675	405.1	22.9	21.3	26.6
2	Cover Slab-2	150.02	250.49	3.855	17673	398.5	22.5	21.0	26.2
3	Cover Slab-3	150.04	250.52	3.892	17678	407.6	23.1	21.4	26.8

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-29-33 Date: 05/02/2022

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyaranyapura.

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-01-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	29/01/2022	05/02/2022	150.43 X 151.58 X 150.56	22802	8.799	284.0	12.5	12.5
2	PCC	M15	29/01/2022	05/02/2022	151.13 X 150.71 X 151.76	22777	8.827	292.6	12.8	
3	PCC	M15	29/01/2022	05/02/2022	151.04 X 150.14 X 150.10	22677	8.592	279.4	12.3	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-29-33 Date: 26/02/2022

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyananyapura.

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-01-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	29/01/2022	26/02/2022	150.74 X 150.44 X 149.03	22677	8.459	401.9	17.7	17.5
2	PCC	M15	29/01/2022	26/02/2022	150.09 X 151.37 X 151.91	22718	8.668	393.8	17.3	
3	PCC	M15	29/01/2022	26/02/2022	150.34 X 149.08 X 151.08	22412	8.844	388.3	17.3	

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Format No: CP/TF/01

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Lab ID : CP-2022-04-29-33 Date: 05/02/2022

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyanayapura.

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-01-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	29/01/2022	05/02/2022	149.70 X 151.41 X 149.02	22666	8.466	290.4	12.8	12.3
2	PCC	M15	29/01/2022	05/02/2022	151.85 X 150.57 X 149.17	22865	8.733	274.4	12.0	
3	PCC	M15	29/01/2022	05/02/2022	149.87 X 149.55 X 151.70	22413	8.685	269.5	12.0	

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Lab ID : CP-2022-04-29-33 Date: 26/02/2022

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyananyapura.

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-01-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	29/01/2022	26/02/2022	151.87 X 149.56 X 151.34	22714	8.665	391.0	17.2	17.2
2	PCC	M15	29/01/2022	26/02/2022	149.07 X 151.88 X 150.98	22641	8.729	392.7	17.3	
3	PCC	M15	29/01/2022	26/02/2022	150.67 X 151.66 X 150.91	22851	8.475	390.2	17.1	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-29-33 Date: 05/02/2022

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyanayapura.

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-01-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	29/01/2022	05/02/2022	149.59 X 149.94 X 151.56	22430	8.779	278.4	12.4	12.2
2	PCC	M15	29/01/2022	05/02/2022	150.83 X 149.86 X 151.78	22603	8.554	274.3	12.1	
3	PCC	M15	29/01/2022	05/02/2022	149.27 X 150.87 X 150.70	22520	9.018	274.3	12.2	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-29-33 Date: 26/02/2022

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyanarayapura.

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-01-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	29/01/2022	26/02/2022	151.15 X 151.83 X 150.81	22948	8.140	393.4	17.1	17.3
2	PCC	M15	29/01/2022	26/02/2022	149.51 X 150.09 X 149.18	22441	8.586	388.9	17.3	
3	PCC	M15	29/01/2022	26/02/2022	151.12 X 149.23 X 150.24	22552	8.257	395.5	17.5	

* The results obtained are satisfactory as per standard requirements.

Note:

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-29-33 Date: 07/02/2022

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyanayapura.

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	30/01/2022	06/02/2022	149.89 X 151.60 X 151.62	22722	8.730	277.1	12.2	12.5
2	PCC	M15	30/01/2022	06/02/2022	150.45 X 149.24 X 149.19	22452	8.931	291.5	13.0	
3	PCC	M15	30/01/2022	06/02/2022	150.41 X 150.10 X 151.90	22577	8.678	280.2	12.4	

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Note:

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-29-33 Date: 28/02/2022

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyananyapura.

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	30/01/2022	27/02/2022	149.35 X 150.37 X 151.86	22458	8.369	390.7	17.4	17.6
2	PCC	M15	30/01/2022	27/02/2022	151.48 X 151.50 X 151.02	22949	8.222	403.5	17.6	
3	PCC	M15	30/01/2022	27/02/2022	149.75 X 149.46 X 149.96	22382	8.327	398.9	17.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-29-33 Date: 07/02/2022

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyanayapura.

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	30/01/2022	06/02/2022	149.95 X 150.56 X 150.47	22577	8.599	281.5	12.5	12.5
2	PCC	M15	30/01/2022	06/02/2022	150.22 X 150.43 X 150.82	22598	8.339	276.7	12.2	
3	PCC	M15	30/01/2022	06/02/2022	149.19 X 149.87 X 149.55	22359	8.236	288.8	12.9	

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-29-33 Date: 28/02/2022

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Thindlu colony Kempegowdanagara and Surrounding areas in ward No.09 Vidyanarayapura.

Agency : Sri.Muniraju B.M, No.04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, H A Farm Post, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/153/2022-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	30/01/2022	27/02/2022	149.22 X	22532	8.644	398.7	17.7	17.5
					151.00 X					
					151.03					
2	PCC	M15	30/01/2022	27/02/2022	149.09 X	22430	8.995	382.0	17.0	
					150.44 X					
					151.82					
3	PCC	M15	30/01/2022	27/02/2022	151.76 X	22705	8.971	400.3	17.6	
					149.60 X					
					150.92					

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